

15500002000C PROJECT: NCRDS87 QUADRANGLE: MCNABB
 COUNTY: PUTNAM 31N - R 1W SECTION: 10 NWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 668.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 494.42
 SOURCE: MINERAL POINT ZINC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.00			UNCONSOLIDATED	117.00	0.00	
551.00	MODESTO		SHALE	25.00	117.00	
526.00	MODESTO		LIMESTONE	1.00	142.00	
525.00	MODESTO		SHALE	15.00	143.00	
510.00	MODESTO		LIMESTONE	3.00	158.00	
507.00	MODESTO		UNCLASSIFIED	82.00	161.00	
425.00	MODESTO		DARK SHALE	8.00	243.00	
417.00	CARBONDALE	DANVILLE	COAL	3.50	251.00	
413.50	CARBONDALE		UNDERCLAY	7.50	254.50	
406.00	CARBONDALE		SHALE	10.17	262.00	
395.80	CARBONDALE	ANNA	BLACK SHALE	2.83	272.20	
393.00	CARBONDALE	HERRIN	COAL	0.50	275.00	
392.50	CARBONDALE		UNDERCLAY	1.00	275.50	
391.50	CARBONDALE		SHALE	15.00	276.50	
376.50	CARBONDALE		UNCLASSIFIED	25.50	291.50	
351.00	CARBONDALE		SANDSTONE	67.75	317.00	
283.20	CARBONDALE		UNCLASSIFIED	25.00	384.80	
258.20	CARBONDALE	HANOVER	LIMESTONE	0.17	409.80	
258.10	CARBONDALE	EXCELLO	BLACK SHALE	2.25	409.90	
255.80	CARBONDALE		UNDERCLAY	6.83	412.20	
249.00	CARBONDALE		UNCLASSIFIED	9.00	419.00	
240.00	CARBONDALE		SHALE	45.42	428.00	
194.60	CARBONDALE		DARK SHALE	11.91	473.40	
182.70	CARBONDALE	COLCHESTER	COAL	3.09	485.30	
179.60	CARBONDALE		UNDERCLAY	2.58	488.40	

15500009000C PROJECT: NCRDS87 QUADRANGLE: SPRING VALLEY
 COUNTY: PUTNAM 32N - R 1W SECTION: 11 1200S 250E
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 680.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 515.90
 SOURCE: B.F. BERRY COAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.00			UNCONSOLIDATED	99.33	0.00	
580.70	MODESTO		SHALE	9.25	99.30	
571.40	MODESTO		LIMESTONE	5.00	108.60	
566.40	MODESTO		BLACK SHALE	4.00	113.60	
562.40	MODESTO		GRAY SHALE	2.62	117.60	
559.80	MODESTO		COAL	0.30	120.20	
559.50	MODESTO		UNDERCLAY	7.50	120.50	
552.00	MODESTO		UNCLASSIFIED	50.33	128.00	
501.70	MODESTO		GRAY SHALE	15.00	178.30	
486.70	MODESTO		UNDERCLAY	6.00	193.30	
480.70	MODESTO		UNCLASSIFIED	2.00	199.30	
478.70	MODESTO		LIMESTONE	2.00	201.30	
476.70	CARBONDALE		CONGL	2.00	203.30	
474.70	CARBONDALE		SHALE	3.00	205.30	
471.70	CARBONDALE		UNCLASSIFIED	45.00	208.30	
426.70	CARBONDALE		SHALE	9.59	253.30	
417.10	CARBONDALE		GRAY SHALE	2.08	262.90	
415.00	CARBONDALE		DARK SHALE	19.00	265.00	
396.00	CARBONDALE	SPRINGFIELD	COAL	3.00	284.00	
393.00	CARBONDALE		UNDERCLAY	11.33	287.00	
381.70	CARBONDALE		SHALE	15.67	298.30	
366.00	CARBONDALE		UNCLASSIFIED	7.33	314.00	
358.70	CARBONDALE	HERRIN	COAL	0.51	321.30	
358.20	CARBONDALE		UNDERCLAY	3.33	321.80	
354.80	CARBONDALE		SANDSTONE	12.33	325.20	
342.50	CARBONDALE		UNCLASSIFIED	51.34	337.50	
291.20	CARBONDALE		GRAY SHALE	12.33	388.80	
278.80	CARBONDALE		SHALE	3.83	401.20	
275.00	CARBONDALE	EXCELLO	BLACK SHALE	9.00	405.00	
266.00	CARBONDALE		SHALE	4.84	414.00	
261.20	CARBONDALE		UNCLASSIFIED	7.00	418.80	
254.20	CARBONDALE		DARK SHALE	4.16	425.80	
250.00	CARBONDALE		UNCLASSIFIED	25.00	430.00	
225.00	CARBONDALE		GRAY SHALE	12.25	455.00	
212.70	CARBONDALE		SHALE	8.75	467.30	
204.00	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.00	476.00	
199.00	CARBONDALE	FRANCIS CREEK	SHALE	16.65	481.00	
182.30	CARBONDALE	COLCHESTER	COAL	3.00	497.70	
179.30	SPoon		UNDERCLAY	1.25	500.70	

178.10 SPOON SANDSTONE 4.00 501.90
 174.10 SPOON UNCLASSIFIED 10.00 505.90

15500015000C PROJECT: NCRDS87 QUADRANGLE: DEPUE
 COUNTY: PUTNAM 33N - R 1W SECTION: 30 SWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 475.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 373.00
 SOURCE: WHITEBREAST FUEL CO. 3 LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.00			UNCONSOLIDATED	45.00	0.00	
430.00	CARBONDALE		SANDSTONE	5.00	45.00	
425.00	CARBONDALE		SHALE	15.00	50.00	
410.00	CARBONDALE	HERRIN	COAL	1.00	65.00	UNCERTAIN CORRELATION
409.00	CARBONDALE		UNDERCLAY	4.00	66.00	
405.00	CARBONDALE		UNCLASSIFIED	23.00	70.00	
382.00	CARBONDALE		SANDSTONE	77.00	93.00	
305.00	CARBONDALE		SHALE	52.00	170.00	
253.00	CARBONDALE		LIMESTONE	2.00	222.00	
251.00	CARBONDALE		DARK SHALE	29.00	224.00	
222.00	CARBONDALE		SHALE	17.00	253.00	
205.00	CARBONDALE		DARK SHALE	6.00	270.00	
199.00	CARBONDALE	COLCHESTER	COAL	3.00	276.00	UNCERTAIN CORRELATION
196.00	SPOON		UNDERCLAY	3.00	279.00	
193.00	SPOON		LIMESTONE	2.00	282.00	
191.00	SPOON		SHALE	55.00	284.00	
136.00	SPOON		BLACK SHALE	1.00	339.00	
135.00	SPOON		SANDSTONE	13.00	340.00	
122.00	SPOON		LIMESTONE	20.00	353.00	

15500016000C PROJECT: NCRDS87 QUADRANGLE: HENRY
 COUNTY: PUTNAM 31N - R 2W SECTION: 26 SWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 447.3 GEOLOGIST: WEIBEL DATE COLLECTED: 11 / 0/1905
 Drillers Log Coal Test LOGGED (FT.): 219.00
 SOURCE: CHERRY OPTION SYNDICATE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
447.30			UNCONSOLIDATED	36.00	0.00	
411.30	CARBONDALE	ANNA	BLACK SHALE	3.00	36.00	
408.30	CARBONDALE	HERRIN	COAL	2.50	39.00	
405.80	CARBONDALE		UNDERCLAY	4.50	41.50	
401.30	CARBONDALE		SANDSTONE	25.00	46.00	
376.30	CARBONDALE		SHALE	43.00	71.00	
333.30	CARBONDALE		DARK SHALE	6.33	114.00	
327.00	CARBONDALE	TURNER MINE	BLACK SHALE	2.67	120.30	
324.30	CARBONDALE		SHALE	9.00	123.00	
315.30	CARBONDALE	EXCELLO	BLACK SHALE	2.00	132.00	
313.30	CARBONDALE		SHALE	27.00	134.00	
286.30	CARBONDALE		GRAY SHALE	26.00	161.00	
260.30	CARBONDALE		DARK SHALE	9.50	187.00	
250.80	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.50	196.50	
248.30	CARBONDALE	FRANCIS CREEK	SHALE	16.25	199.00	
232.00	CARBONDALE	COLCHESTER	COAL	2.83	215.30	
229.20	SPOON		UNDERCLAY	0.92	218.10	

15500041000C PROJECT: NCRDS87 QUADRANGLE: DEPUE
 COUNTY: PUTNAM 32N - R 2W SECTION: 1 SE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 650.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 510.00
 SOURCE: ST. PAUL & BRACEVILLE COAL CO. ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.00			UNCONSOLIDATED	200.00	0.00	
450.00	CARBONDALE		SHALE	1.50	200.00	
448.50	CARBONDALE	BRERETON	LIMESTONE	0.17	201.50	

448.30	CARBONDALE		SHALE	3.00	201.70
445.30	CARBONDALE	HERRIN	COAL	0.83	204.70
444.50	CARBONDALE		SHALE	19.50	205.50
425.00	CARBONDALE		SANDSTONE	13.00	225.00
412.00	CARBONDALE		SHALE	2.00	238.00
410.00	CARBONDALE		SANDSTONE	5.00	240.00
405.00	CARBONDALE		SHALE	53.33	245.00
351.70	CARBONDALE	TURNER MINE	BLACK SHALE	2.67	298.30
349.00	CARBONDALE		SHALE	2.00	301.00
347.00	CARBONDALE		UNCLASSIFIED	13.00	303.00
334.00	CARBONDALE	EXCELLO	BLACK SHALE	2.00	316.00
332.00	CARBONDALE		SHALE	8.00	318.00
324.00	CARBONDALE		LIMESTONE	2.00	326.00
322.00	CARBONDALE		SHALE	34.00	328.00
288.00	CARBONDALE		DARK SHALE	12.00	362.00
276.00	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.92	374.00
275.10	CARBONDALE	COLCHESTER	COAL	0.83	374.90
274.20			SHALE	0.84	375.80
273.40			GRAY SHALE	6.41	376.60
267.00			SHALE	2.75	383.00
264.20			COAL	3.33	385.80
260.90			SHALE	10.92	389.10
250.00			SANDSTONE	4.00	400.00
246.00			SHALE	9.00	404.00
237.00			BLACK SHALE	5.67	413.00
231.30			GRAY SHALE	1.00	418.70
230.30			BLACK SHALE	0.41	419.70
229.90			COAL	1.76	420.10
228.20			SHALE	16.16	421.80
212.00			SANDSTONE	5.00	438.00
207.00			SHALE	14.00	443.00
193.00			COAL	0.50	457.00
192.50			SHALE	6.50	457.50
186.00			GRAY SHALE	4.00	464.00
182.00			BLACK SHALE	0.50	468.00
181.50			SANDSTONE	2.50	468.50
179.00			SHALE	3.00	471.00
176.00			DARK SHALE	2.00	474.00
174.00			SHALE	3.00	476.00
171.00			DARK SHALE	1.00	479.00
170.00			COAL	0.50	480.00
169.50			SHALE	2.00	480.50
167.50			SANDSTONE	3.50	482.50
164.00			SHALE	3.50	486.00
160.50			COAL	0.50	489.50
160.00			SHALE	7.00	490.00
153.00			LIMESTONE	13.00	497.00

1557000000C PROJECT: NCRDS QUADRANGLE: SPRING VALLEY
COUNTY: PUTNAM 32N - R 1W SECTION: 11 1330S 260E
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 680.0 GEOLOGIST: LOUCHIOS DATE COLLECTED: 0 / 0/1914
Drillers Log Coal Test LOGGED (FT.): 600.00
SOURCE: UTAH INTERNATIONAL 09C33 CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.00			NO RECORD	96.50	0.00	
583.50	SHELBURN		LIMESTONE	20.50	96.50	
563.00	SHELBURN		SHALE	17.00	117.00	
546.00	SHELBURN		LIMESTONE	12.00	134.00	
534.00	SHELBURN		SHALE	60.00	146.00	
474.00	SHELBURN		RED SHALE	18.00	206.00	
456.00	SHELBURN		SHALE	67.00	224.00	
389.00	CARBONDALE	HERRIN	COAL	3.00	291.00	
386.00	CARBONDALE		SHALE	27.00	294.00	
359.00	CARBONDALE	SPRINGFIELD	COAL	1.00	321.00	
358.00	CARBONDALE		SHALE	180.00	322.00	
178.00	CARBONDALE	COLCHESTER	COAL	3.00	502.00	
175.00	CARBONDALE		SHALE	60.00	505.00	
115.00	CARBONDALE		SANDSTONE	35.00	565.00	

15570001000C PROJECT: NCRDS QUADRANGLE: SPRING VALLEY
COUNTY: PUTNAM 32N - R 1W SECTION: 9 2010N 450E
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 685.0 GEOLOGIST: LOUCHIOS DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 477.00
SOURCE: UTAH INTERNATIONAL 08C32 CODED COAL LOG

ELEVATION	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	

TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
685.00			UNCLASSIFIED	254.00	0.00	
431.00	CARBONDALE	HERRIN	COAL	3.70	254.00	
427.30	CARBONDALE		CLAYSTONE	4.30	257.70	
423.00	CARBONDALE		UNCLASSIFIED	31.50	262.00	
391.50	CARBONDALE	SPRINGFIELD	COAL	3.50	293.50	
388.00	CARBONDALE		UNCLASSIFIED	170.00	297.00	
218.00	CARBONDALE		DARK SHALE	1.30	467.00	
216.70	CARBONDALE	COLCHESTER	COAL	3.40	468.30	
213.30	CARBONDALE		UNCLASSIFIED	5.30	471.70	

15570002000C PROJECT: NCRDS QUADRANGLE: SPRING VALLEY
COUNTY: PUTNAM 32N - R 1W SECTION: 5 690S 180E
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 687.0 GEOLOGIST: LOUCHIOS DATE COLLECTED: 0 / 0/1904
Drillers Log Coal Test LOGGED (FT.): 424.00
SOURCE: UTAH INTERNATIONAL 07C29 CODED COAL LOG

ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
687.00			UNCLASSIFIED	190.00	0.00	
497.00	CARBONDALE	HERRIN	COAL	3.50	190.00	
493.50	CARBONDALE		UNCLASSIFIED	29.50	193.50	
464.00	CARBONDALE	SPRINGFIELD	COAL	3.00	223.00	
461.00	CARBONDALE		UNCLASSIFIED	195.00	226.00	
266.00	CARBONDALE	COLCHESTER	COAL	3.00	421.00	

15570003000C PROJECT: NCRDS QUADRANGLE: SPRING VALLEY
COUNTY: PUTNAM 32N - R 1W SECTION: 3 880N 350W
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 612.0 GEOLOGIST: LOUCHIOS DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 434.00
SOURCE: UTAH INTERNATIONAL 06C8 CODED COAL LOG

ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
612.00			UNCLASSIFIED	189.00	0.00	
423.00			DARK SHALE	20.00	189.00	
403.00			COAL	2.00	209.00	
401.00			UNCLASSIFIED	33.00	211.00	
368.00			COAL	3.00	244.00	IMPURE
365.00			UNCLASSIFIED	178.00	247.00	
187.00			COAL	3.00	425.00	
184.00			CLAYSTONE	6.00	428.00	

15570004000C PROJECT: NCRDS QUADRANGLE: MCNABB
COUNTY: PUTNAM 32N - R 1W SECTION: 33 1730S 1910W
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 650.0 GEOLOGIST: LOUCHIOS DATE COLLECTED: 0 / 0/1905
Drillers Log Coal Test LOGGED (FT.): 538.00
SOURCE: UTAH INTERNATIONAL 25C40 CODED COAL LOG

ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
650.00			UNCLASSIFIED	279.20	0.00	
370.80	CARBONDALE	SPRINGFIELD	COAL	3.60	279.20	
367.20			UNCLASSIFIED	157.40	282.80	
209.80	CARBONDALE	COLCHESTER	COAL	1.80	440.20	
208.00			UNCLASSIFIED	86.60	442.00	
121.40			COAL	0.20	528.60	
121.20			UNCLASSIFIED	6.70	528.80	
114.50			COAL	0.50	535.50	
114.00			UNCLASSIFIED	2.00	536.00	

15570005000C PROJECT: NCRDS QUADRANGLE: MCNABB

COUNTY: PUTNAM 32N - R 1W SECTION: 35 2220N 1980W
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 722.0 GEOLOGIST: LOUCHIOS DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 570.00
 SOURCE: UTAH INTERNATIONAL 26C11 CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.00			UNCLASSIFIED	335.00	0.00	
387.00			COAL	0.30	335.00	
386.70			CLAYSTONE	0.30	335.30	
386.40	CARBONDALE	SPRINGFIELD	COAL	2.10	335.60	UNCERTAIN CORRELATION
384.30			UNCLASSIFIED	223.80	337.70	
160.50	CARBONDALE	COLCHESTER	COAL	3.10	561.50	
157.40			CLAYSTONE	5.40	564.60	

15570006000C PROJECT: NCRDS QUADRANGLE: MCNABB
 COUNTY: PUTNAM 31N - R 1W SECTION: 1 2490N 1250W
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 713.0 GEOLOGIST: LOUCHIOS DATE COLLECTED: 0 / 0/1931
 Drillers Log Coal Test LOGGED (FT.): 576.00
 SOURCE: UTAH INTERNATIONAL 27C1 CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.00			UNCLASSIFIED	173.50	0.00	
539.50			COAL	0.40	173.50	
539.10			UNCLASSIFIED	178.50	173.90	
360.60	CARBONDALE	SPRINGFIELD	COAL	2.90	352.40	
357.70	CARBONDALE		UNCLASSIFIED	215.70	355.30	
142.00	CARBONDALE	COLCHESTER	COAL	2.90	571.00	
139.10	CARBONDALE		CLAYSTONE	2.10	573.90	

15570007000C PROJECT: NCRDS QUADRANGLE: MCNABB
 COUNTY: PUTNAM 31N - R 1W SECTION: 2 1600S 1180W
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 690.0 GEOLOGIST: LOUCHIOS DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 516.00
 SOURCE: UTAH INTERNATIONAL 28C19 CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.00			UNCLASSIFIED	303.00	0.00	
387.00	CARBONDALE		DARK SHALE	2.90	303.00	
384.10	CARBONDALE	HERRIN	COAL	3.40	305.90	
380.70	CARBONDALE		UNCLASSIFIED	37.40	309.30	
343.30	CARBONDALE		BLACK SHALE	19.30	346.70	
324.00	CARBONDALE	SPRINGFIELD	COAL	6.30	366.00	
317.70	CARBONDALE		UNCLASSIFIED	77.70	372.30	
240.00	CARBONDALE		DARK SHALE	52.00	450.00	
188.00	CARBONDALE	COLCHESTER	COAL	3.00	502.00	
185.00	CARBONDALE		UNCLASSIFIED	11.00	505.00	

15570008000C PROJECT: NCRDS QUADRANGLE: MCNABB
 COUNTY: PUTNAM 31N - R 1W SECTION: 3 2240S 1030E
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 700.0 GEOLOGIST: LOUCHIOS DATE COLLECTED: 0 / 0/1943
 Drillers Log Coal Test LOGGED (FT.): 845.00
 SOURCE: UTAH INTERNATIONAL 29C20 CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.00			NO RECORD	121.00	0.00	
579.00	CARBONDALE		COAL	3.00	121.00	
576.00	CARBONDALE		UNCLASSIFIED	161.00	124.00	
415.00	CARBONDALE		BLACK SHALE	15.00	285.00	
400.00	CARBONDALE	SPRINGFIELD	COAL	3.00	300.00	
397.00	CARBONDALE		UNCLASSIFIED	130.00	303.00	

267.00	CARBONDALE		BLACK SHALE	3.00	433.00
264.00	CARBONDALE	COLCHESTER	COAL	4.00	436.00
260.00			UNCLASSIFIED	405.00	440.00

15570009000C PROJECT: NCRDS QUADRANGLE: MCNABB
COUNTY: PUTNAM 31N - R 1W SECTION: 9 700N 1920W
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 650.0 GEOLOGIST: LOUCHIOS DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 474.00
SOURCE: UTAH INTERNATIONAL 30C22 CODED COAL LOG

						THICKNESS (FT.)
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT

650.00			UNCLASSIFIED	226.30	0.00	
423.70	CARBONDALE		BLACK SHALE	0.50	226.30	
423.20	CARBONDALE	HERRIN	COAL	3.10	226.80	
420.10	CARBONDALE		CLAYSTONE	8.40	229.90	
411.70	CARBONDALE		LIMESTONE	0.70	238.30	
411.00	CARBONDALE		UNCLASSIFIED	211.00	239.00	